

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555128

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-88-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-2STD-30-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

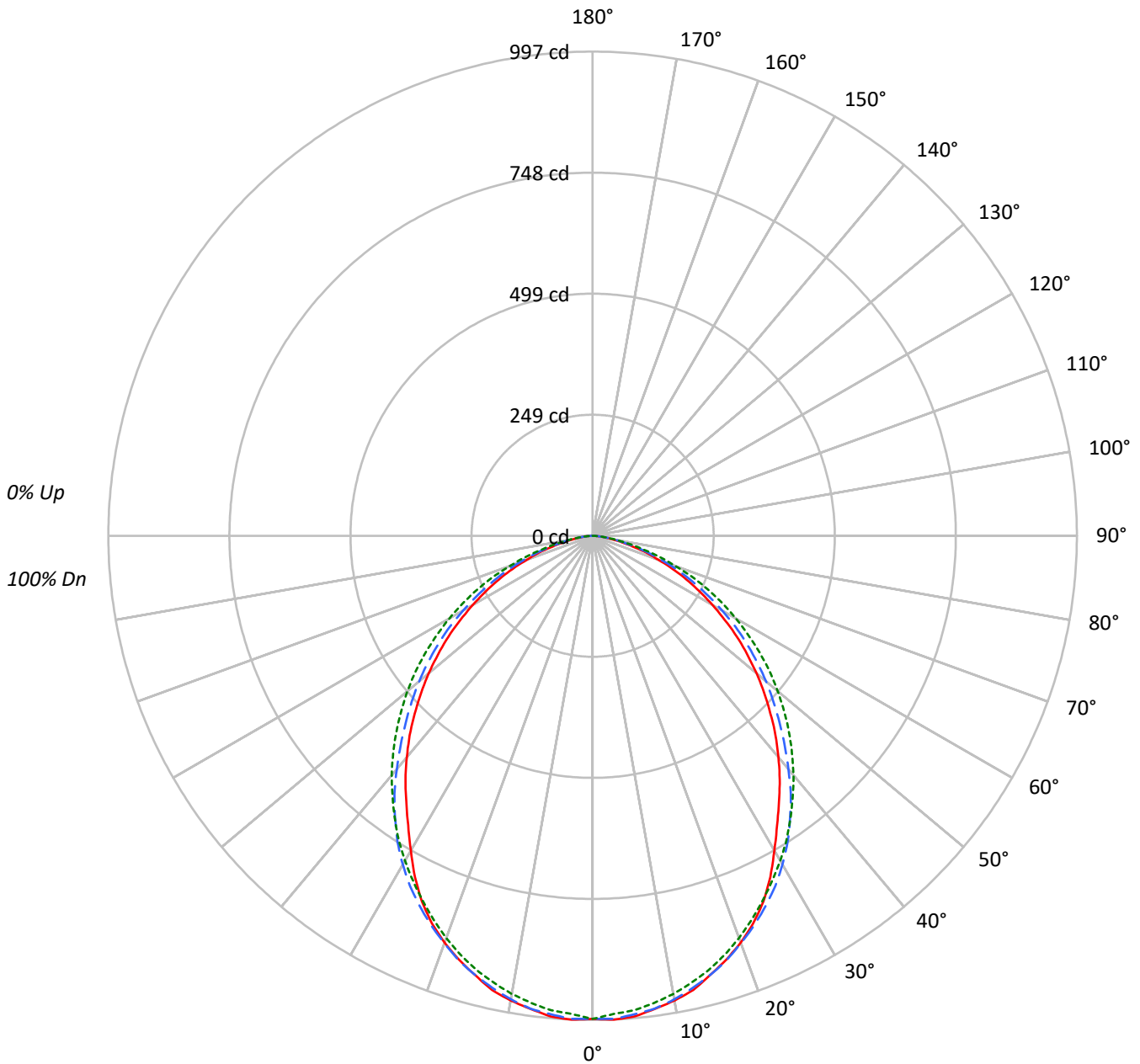
Lumens per Lamp: N/A
Luminaire Lumens: 2300.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P555128

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-80-88-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	86	86		
	2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73	73	73		
	3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63	63	63		
	4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54	54	54	54	54	54		
	5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47	47	47	47	47	47		
	6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42	42	42		
	7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37	37	37		
	8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34	34	34	34	34	34		
	9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30	30	30		
	10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28	28	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5353	5353	5353
5°	5367	5345	5299
10°	5311	5296	5235
15°	5216	5216	5157
20°	5106	5113	5047
25°	4938	4999	4920
30°	4650	4859	4799
35°	4393	4658	4665
40°	4180	4406	4521
45°	3941	4139	4351
50°	3689	3900	4165
55°	3402	3628	3941
60°	3064	3311	3665
65°	2706	2944	3334
70°	2255	2507	2832
75°	1772	2002	2217
80°	1268	1410	1562
85°	827	827	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	4.1
10°-20°	263.1	11.4
20°-30°	384.5	16.7
30°-40°	436.4	19.0
40°-50°	421.3	18.3
50°-60°	347.5	15.1
60°-70°	231.4	10.1
70°-80°	103.6	4.5
80°-90°	18.5	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	741.2	32.2
0°-40°	1177.6	51.2
0°-60°	1946.5	84.6
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	994	993	989	984	981	94
15°	936	938	936	932	926	264
25°	832	838	842	836	828	381
35°	669	678	709	713	710	419
45°	518	527	544	569	572	399
55°	363	369	387	408	420	324
65°	212	218	231	248	262	211
75°	85	90	96	101	107	93
85°	13	13	13	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.7	994.7	994.7	994.7	994.7
2.5°	997.4	997.7	995.5	989.3	985.5
5°	993.5	993.2	989.3	984.0	980.9
7.5°	982.5	983.2	982.1	974.4	970.2
10°	971.8	972.1	969.1	963.0	958.0
12.5°	958.0	957.6	953.4	950.4	942.3
15°	936.2	938.5	936.2	932.0	925.5
17.5°	915.2	915.2	916.7	909.5	904.5
20°	891.5	892.7	892.7	886.9	881.2
22.5°	864.0	867.4	868.6	862.5	855.6
25°	831.5	838.0	841.8	835.7	828.5
27.5°	792.2	802.1	813.6	809.0	800.9
30°	748.2	762.7	781.8	778.0	772.3
32.5°	706.6	721.1	747.5	745.9	742.9
35°	668.7	677.9	708.9	712.7	710.0
37.5°	632.8	641.2	670.3	679.0	676.8
40°	595.0	604.2	627.1	642.7	643.5
42.5°	557.5	566.3	585.0	607.6	607.6
45°	517.8	526.6	543.8	568.6	571.7
47.5°	478.8	488.0	504.8	529.6	534.6
50°	440.6	449.0	465.8	489.9	497.5
52.5°	400.9	410.0	426.5	448.6	459.7
55°	362.6	368.8	386.7	408.1	420.0
57.5°	322.9	328.6	348.9	367.2	379.5
60°	284.7	291.9	307.6	326.3	340.5
62.5°	248.0	255.6	269.0	285.5	301.5
65°	212.5	218.2	231.2	247.6	261.8
67.5°	178.1	183.0	196.0	207.5	222.4
70°	143.3	149.8	159.3	170.4	180.0
72.5°	115.4	118.1	126.1	134.1	144.1
75°	85.2	89.8	96.3	100.9	106.6
77.5°	61.1	63.8	67.6	71.5	76.8
80°	40.9	42.0	45.5	46.2	50.4
82.5°	24.8	25.6	26.4	26.7	28.3
85°	13.4	13.4	13.4	12.6	12.6
87.5°	7.6	7.6	6.5	5.3	3.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)